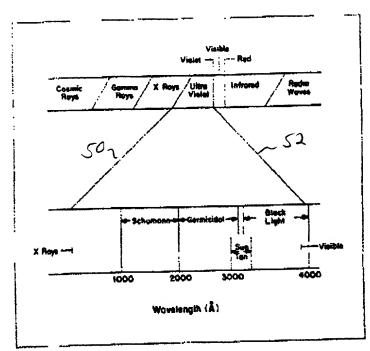
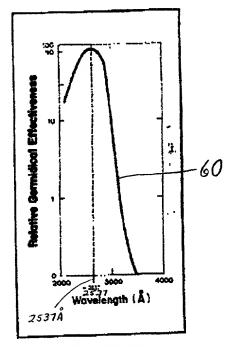


F16,5



Electromagnetic spectrum (enlargement of ultraviolet region).

F16,6



ancoving the relative affectiveness of various wavelengths in killing bacteris.

F16.7

Ultraviolet light causes adjacent thymines (or cytosines) in DNA to dimerize. The rippled lines at the bottom of the structures represents the deoxyribose-phosphate backbone of the DNA strand.

Result of E- Coli Culture Tests on E-Coli 0157:H7

Culture Read on Cider 9/4/98 (Blood Agar Plates - 3 Dilutions)

	Cider SIAD Treated 1	Cider SIAD Treated 2	Cider Control E, coli-Not Treated	Cider Cont No E. Coli
,5¢¢	No Growth	No Growth	Confluent Growth	No Growth
.1cc	No Growth	No Growth	Some Confluent Growth >10,000 col/ml E.Coli	No Growth .
.001cc	No Growth	No Growth	75,000 çol/mi E. Coli	No Growth

F/6.9

5 GAL. TROPICANA GROVESTAND "LOTS OF PULP" ORANGE JUICE INOCULATED WITH E-COLI ATCC 11229

(%) (%)	100	8	100	100	100	100	06	83	58	20	25	18	8	0	0	0	0	0	0	1
ECOL				Ļ					Ļ				L							
TEMP4(C)	18	17	18	18	18	20	2	22	24	22	92	28	28	31	8	33	8	38	44	
TEMP3(C) TEMP4(C) ECOLI(%)	18	18	17	47	17	18	10	21	21	23	S	25	28	26	28	30	32	34	38	
TUBE2(F)	70	70	72	74	76	78	80	83	98	87	88	90	92	06	95	92	94	95	105	
TUBE1(F)	70	20	70	72	74	78	78	80	80	84	85	87	87	06	85	06	06	06	100	
GPM	10	10	10	10	10	9	10	10	10	10	10	10	10	10	10	10	10	10	10	
LAMP(W)	1777.50	2336.40	2596.00	2714.00	2784.80	2914.00	3020.80	3068,00	3115.20	3115.20	3115.20	3115.20	3115.20	3115.20	3115.20	3115.20	3115.20	3104.70	3115.20	
PRIM. E II	237	238	236	238	236	235	238	238	236	238	236	236	238	236	238		238	237	236	
PRIM	7.5	6.6	11	11.5	11.8	12.4	12.8	13	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.1	13.2	
TEMP2(F)	175	225	235	240	245	250	280	270	280	300	300	300	300	300	300	300	300	300	300	440
TEMP1(F)	175	225	235	240	245	250	260	270	280	300	300	006	300	300	300	300	300	300	300	155
TIME(MIN)TEMP1(F) TEMP2(F)	1	2	2.25	2.5	2.75	3	3.25	3.5	3.75	4	4.5	5	5.5	9	6.5	7	7.5	8	10	1200
TRIAL	21	22	23	24	25	28	1.2	28	29	30	31	32	33	34	35	36	37	38	39	

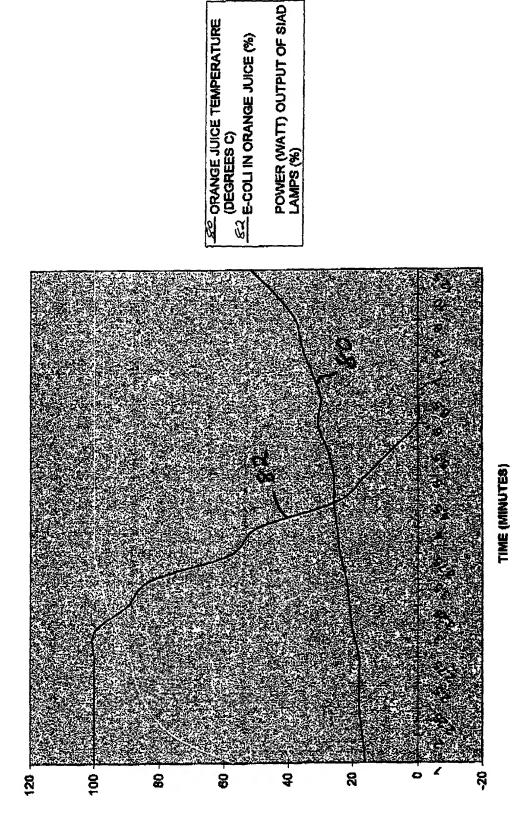
NOTE: SUGAR CONTENT REMAINED CONSTANT IN ALL TRIALS TEMP1=LAMP1 TUBE1=(IN)OUTSIDE TEMP2=LAMP2 TUBE2=(OUT)OUTSIDE

TEMP3#JUICE IN

LAMP(W)=LAMP1 ECOLI 100%=10LOG

F16.10

TEST ON E-COLI (ATCC11229) INOCLATED ORANGE JUICE



F/6.11

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5 GAL. TROPICANA GROVESTAND "LOTS OF PULP" ORANGE JUICE INOCULATED WITH E-COLI ATCC 25922

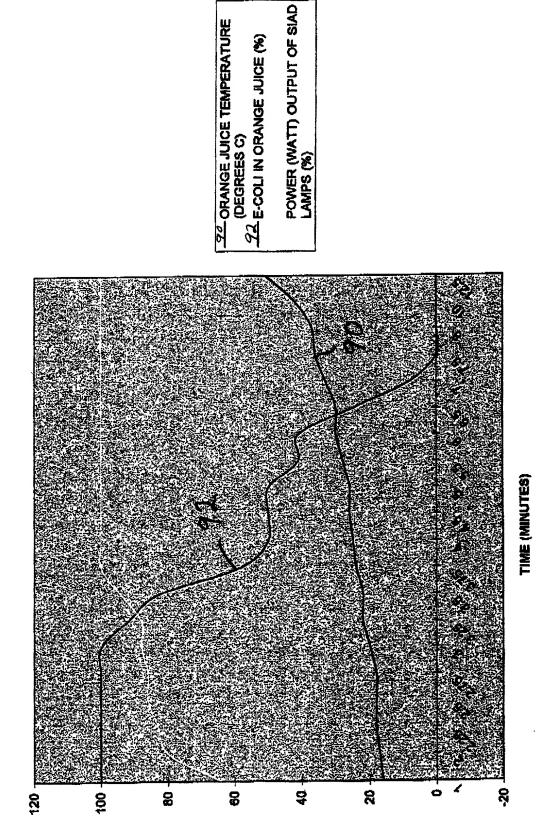
②	8	100	8	8	8	8	82	83	28	22	S	8	¥	4	52	80	0	0	0	Ö
ECOLIG	F	-	ļ	-	Ē	-														
EMP4(C)	18	17	18	18	18	20	22	22	24	25	28	26	28	30	30	33	88	37	42	51
TEMP3(C) TEMP4(C) ECOLI(%)	16	18	17	17	18	18	20	21	21	23	23	25	26	26	28	30	32	34	38	43
TUBE2(F)	70	70	72	74	75	78	78	80	82	58	88	06	85	66	56	100	105	105	105	112
TUBE1(F)	70	70	02	7.2	73	22	27	94	82	08	82	85	87	88	76	98	100	100	100	110
GPM	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
LAMP(M)	2008.00	2548.80	2596.00	2714.00	2702.50	2773.00	2773.00	2937.50	3125.50	3125.50	3125.50	3125.50	3125.50	3125,50	3138.80	3125.50	3125.50	3125.50	3125.50	3125.50
PRIM. E	236	238	236	236	235	235	235	235	332	235	235	235	235	235	238	235	235	235	235	235
PRIM.	8.5	10.8	11	11.5	11.5	11.8	11.8	12.5	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3
TEMP2(F)	175		235		245		280			300			300				300		300	
TIME(MIN] TEMP1(F) TEMP2(F)	175	225			245		280			300		300				300	300	300	300	305
TIME(MIN)	1	7	2.25	2.5	2.75	3	3.25	3.5	3.75	7	4.5	5	5,5	8	6.5	1	7.5	8	10	12.5
TRIAL	-	2	3	4	5	8	7	8	6	10	11	12	13	14	15	18	17	18	19	20

NOTE: SUGAR CONTENT REMAINED CONSTANT IN ALL TRIALS
TEMP1=(IN)OUTSIDE
TEMP2=LAMP2
TUBE2=(OUT)OUTSIDE

TEMP3=JUICE IN TEMP4=JUICE OUT

LAMP(W)=LAMP1 ECOLI 100%=10LOG

TEST ON E-COLI (ATCC 25922) INDCULATED ORANGE JUICE



1 914